Pedalino™ Owner's Manual

firmware rev. 4.22

OMPE002B - Rev. 2.0 - EN EU — Copyright © 2012 Vintage Revolution B.V.

1.1 MESSAGE TO THE USERS

Thank you from all of us at Vintage Revolution for purchasing the Pedalino – a revolutionary foot controller that sets new precedents in terms of ergonomics and control.

Completely void of any mechanical parts and less than a centimetre thick, Pedalino brings you total control of your PedalPro via four multi-level pressure-sensitive switch pads.

Using these pads, you can control your PedalPro when playing live, jumping between presets in one motion, even altering your effects' parameters while playing by sweeping through their range with an expression pedal. It's all new creative territory that essentially eliminates the clunky foot switch and along with it, the mechanical noise inherent to old-school foot controllers. In its place? A revolutionary device that redefines control, precision, comfort and durability.

And - it's incredibly easy to use. Forget spending hours trying to decrypt the MIDI channels and controls on your new controller. Pedalino doesn't need any programming to play, because all the programming is already in your PedalPro. Pedalino is simply a means of controlling your PedalPro and, as you can see from the size of this manual, it really is as easy as plug and play.

From the team at VR.

1.2 SUMMARY OF FEATURES

- Complete control of your PedalPro via **four multi-level, pressure-sensitive switch pads**. No switches or mechanical moving parts to break down. No mechanical or electrical noise.
- Revolutionary ergonomic design - only **9mm thick**.
- Option to connect an **expression pedal** for adjusting effects' parameters in real-time.
- Completely customisable. **Adjustable switching levels/thresholds** allow you to customise your Pedalino to your weight and position, whether it's sitting or standing.
- **On-the-fly** access to key parameters of your PedalPro's effects for live sound fine-tuning.
- Super **sturdy construction** that will see you throughout your entire musical career.
- **Ultra-bright, oversized LCD display** for easy reading while playing, and clearer feedback.
- **Nothing to programme** – everything is already pre-programmed in the PedalPro.
- Ultra-bright **action feedback LEDs** for instantaneous feedback.
- **Complete control of the PedalPro tuner**, which is displayed on the extra large LCD for easy tuning.
- Bypass option for **complete bypass** of the PedalPro.
- **Mute option** for changing guitars.
- **USB connection** for easy firmware upgrades.
- Direct access to the **favourite presets** on your PedalPro.
- **Virtual board** for turning your Pedalino into a clean, smart pedalboard.
- Integrated **cable strain relief mechanism** for trouble-free operation.

ABOUT THE WARNING SYMBOLS

This symbol, wherever it appears, is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product. Risk of death or severe injury may ensue if the unit is used improperly.

This symbol, wherever it appears, is intended to alert the user to instructions that must be carried out. Failure to follow the instructions may result in the risk of injury or material damage.

This product has been designed and manufactured to meet strict safety and quality standards. It is very important that you are aware of the following installation and operation precautions:

1. **Read and keep these instructions and heed all warnings**
   You should read all the safety and operating instructions carefully before operating this apparatus. Retain this manual for future reference and adhere to all warnings in the manual or on the apparatus.

2. **Water and moisture**
   The presence of electricity near water can be dangerous. Do not use the apparatus near water – for example next to a bathtub, a sink, in a wet basement or near a swimming pool, etc.

3. **Object or liquid entry**
   Take care that objects do not fall and liquids are not spilled into the enclosure through any openings. Liquid filled objects such as vases should not be placed on the apparatus.

4. **Ventilation**
   Do not place the unit on a bed, sofa, rug or similar soft surface, or in an enclosed bookcase or cabinet, since ventilation may be impeded. The unit and the AC adapter should be located so that their location does not interfere with proper ventilation. Always install the unit according to the instruction provided by the manufacturer.

5. **Heat**
   Locate the apparatus away from naked flames or heat producing equipment such as radiators, stoves or other appliances (including amplifiers) that produce heat.

6. **Climate**
   The apparatus has been designed for use in moderate climates.

To reduce the risk of fire or electric shock, unplug the apparatus when there is high probability of lightning.

7. **Location**
   Make sure you always have the unit placed on a stable surface and that it is level. NEVER place it on a stand that could wobble or on inclined surfaces. Do not place heavy objects on top of the unit.

8. **Cleaning**
   Always unplug the AC adapter from the mains supply before cleaning. The case should normally only require a wipe with a soft, damp, lint-free cloth. DO NOT use paint thinners or other chemical solvents for cleaning, which will destroy prints and paintwork. DO NOT use alcohol or household cleaning products. DO NOT USE WATER. At regular intervals, you should also unplug the AC adapter and clean its case and prongs using a clean dry cloth to prevent any accumulation of dust that could result in poor insulation and lead to fire.

Other AC adapters than those supplied and approved by the manufacturer may use a different polarity, or be designed for a different voltage, so their use could result in damage, malfunction, or electric shock.

9. **Power sources**
   Only use the supplied AC adapter, and make sure the line voltage at the installation matches the input voltage specified on the AC adaptor's body.

10. **Power-cord protection**
    Power supply cords should be routed so that they are not likely to be walked on, bent, stretched or pinched by items placed upon or against them, paying particular attention to cords, plugs, convenience receptacles and the point where they exit from the apparatus.

11. **Impacts**
    Protect the unit from strong impact. DO NOT drop it!

12. **Abnormal smell**
    If an abnormal smell or smoke is detected from the apparatus, turn the power off immediately and unplug the AC adapter from the wall outlet. Contact your dealer immediately.

13. **Servicing and maintenance**
    None of the parts inside the enclosure of this apparatus is serviceable by the user. DO NOT open the enclosure or the AC adapter and DO NOT attempt to modify the internal circuitry. All servicing and maintenance beyond what is described in this manual should be referred to qualified service personnel.

14. **Damage requiring service**
    The apparatus should be serviced by qualified service personnel when:
    - Objects have fallen onto, or liquid has been spilled into the apparatus, or
    - The apparatus has been exposed to rain, or
    - The apparatus does not appear to operate normally or shows a marked change in performance, or
    - The apparatus has been dropped and/or the enclosure damaged.

3.1 DECLARATION OF CONFORMITY

Vintage Revolution B.V., Binckhorstlaan 36, Den Haag, The Netherlands, declares that the following product:

Pedalino Foot Controller, mod. PE002B

conforms to the following Product Specifications:

Safety: EN 60065 / IEC 60065
EMC: EN 55103-1, EN 55103-2

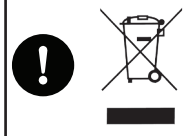
The product complies with the requirements of the Low Voltage Directive 73/23/EEC and the EMC Directive 89/336/EEC as amended by Directive 93/68/EEC.

This product requires a Class II power adapter that conforms to the requirements of EN 60065, EN 60742, or equivalent.

3.2 RoHS COMPLIANCE

This device has been manufactured in compliance with Directive 2002/95/EC on the Restriction of the Use of certain Hazardous Substances in Electrical and Electronic Equipment (RoHS).

3.3 DISPOSAL



This marking indicates that this product must not be disposed with other household waste throughout the EU.

To dispose of your product, please use your local return and collection system, or contact the retailer where the product was purchased or Vintage Revolution B.V.

4.1 ABOUT THIS MANUAL

This electronic format manual makes easy work of finding your way around the many innovative features of your Pedalino™ Foot Controller. Electronic manuals make it easier to search for specific information, browse the contents, access new or revised editions and, thanks to contextual links, immediately access any related information either within the manual, or on our website (hyperlinks to an internet website* are followed by the symbol). They are also, obviously, better for the environment and mean no bulky paper manuals gathering dust in your studio. For updates to the manual or latest versions, add-ons and manuals of related products, check the Vintage Revolution website .

4.2 BOX CONTENT

The following items should be included in your Pedalino package:

- The Pedalino™ foot controller
- AC/DC linear power supply
- 5m, 5-pin ADES™ cable

4.3 SHIPPING, STORING AND TRANSPORTING

Great care was taken in the manufacturing and packaging of your Pedalino™ Foot Controller. Everything should be included and in perfect working order. Should any parts be missing or damaged however, please contact the dealer from whom you purchased your Pedalino. They will facilitate the resolution of your issue as quickly as possible. If you purchased your product directly from VR, please contact us (@).

Damaged units should never be sent directly to us. Please inform the dealer from whom you acquired your Pedalino Foot Controller of the damage, as well as the transportation company that delivered it to you. You must follow the steps above in order to retain the validity of your warranty.

To ensure the optimal protection of your Pedalino during transportation or use, we recommend using a suitable case such as a flight case. Always use the original packaging when storing, shipping or returning your unit.

** Accessing a website via a hyperlink requires an internet connection.*

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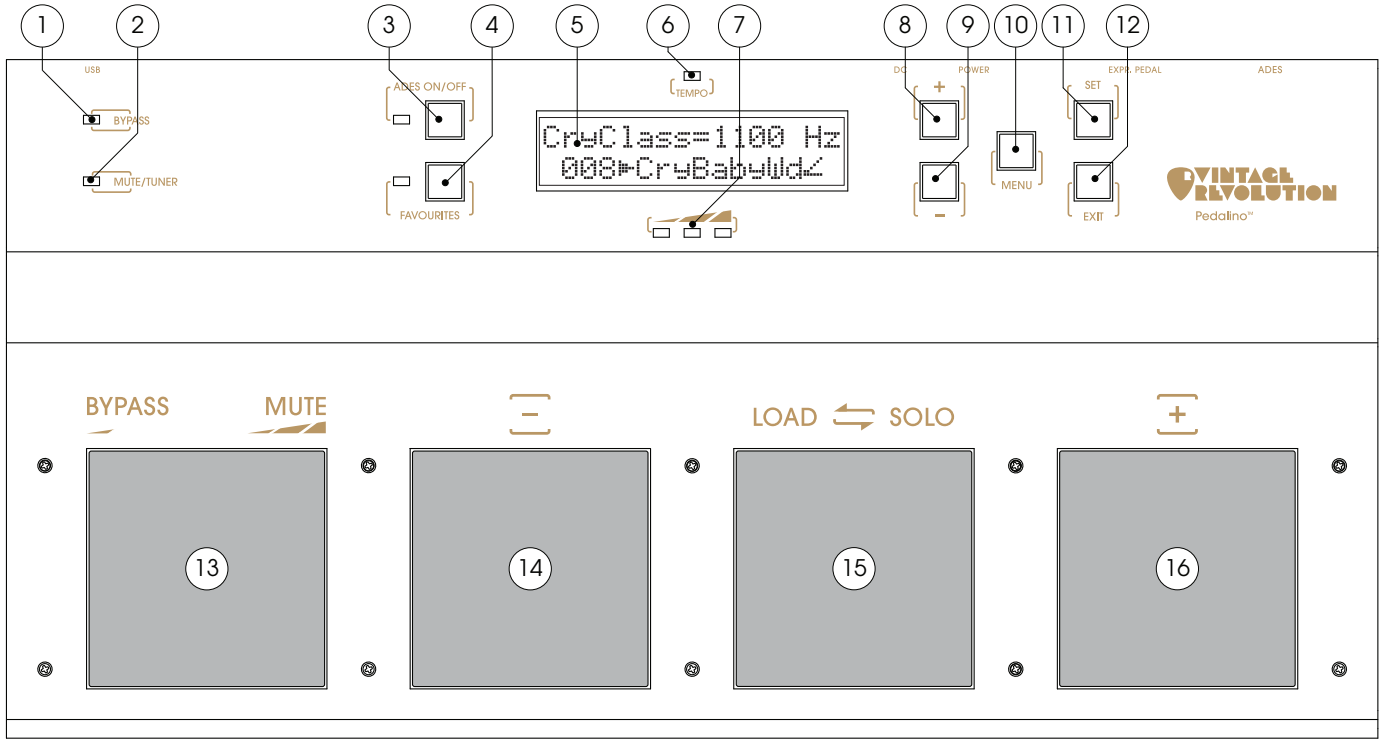
Getting to Know - Top Panel



1. BYPASS LED - When lit, the PedalPro is in full bypass mode.

2. MUTE/TUNER LED - When lit, it indicates that the PedalPro is muted AND the tuner in PedalPro is activated. The tuning information is also shown on the Pedalino's display.

3. ADES ON/OFF (switch & LED) - Use this switch to suspend and reactivate the ADES connection with the PedalPro. When the LED is on, the ADES connection is present. A blinking LED indicates that the connection is not present.

4. FAVOURITES (switch & LED) - Use this switch to access the favourite preset list on your PedalPro. When the LED is on, the favourite preset list is loaded on the PedalPro.

5. Display - Shows presets' names, effects' parameters, settings and other info.

6. TEMPO LED - It blinks to show the speed of the effects of the PedalPro*.

7. Force Feedback LEDs - Provide clear feedback on the level of force applied on the sensor pads 13-16. Three levels of force (***LEVEL 1***, ***LEVEL 2*** and ***LEVEL 3***) are possible, as indicated by the number of LEDs lit up.

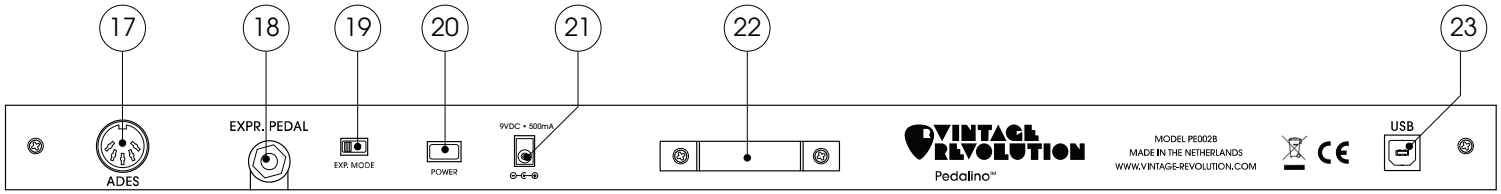
8-12. –, +, MENU, SET & EXIT keys - Use these keys to navigate through the menus of the Pedalino and change its settings.

13. BYPASS/MUTE pad - Press to ***LEVEL 1*** to completely bypass the PedalPro. Press to ***LEVEL 3*** to soft mute PedalPro - e.g., for changing guitars - and to activate the tuner. Tuner information is visible on display 5.

14. ━ pad - In **browse mode**, press to ***LEVEL 1*** to decrease preset number by 1. Press to ***LEVEL 2*** to decrease it by 10, press to ***LEVEL 3*** to decrease it by 50. In **favourite mode**, please refer to section 8.3, on page 11.

15. LOAD/SOLO pad - In **browse mode**, press to load the new preset.

16. ✚ pad - In **browse mode**, press to ***LEVEL 1*** to increase preset number by 1. Press to ***LEVEL 2*** to increase it by 10, press to ***LEVEL 3*** to increase it by 50. In **favourite mode**, please refer to section 8.3, on page 11.



17. ADES™ connector - Use the 5-PIN ADES cable supplied to connect here your PedalPro™ analogue multi-effect and control it with your Pedalino using VR's "Advanced music DEScriptor" protocol.

> ***For the proper functioning of the Pedalino Foot Controller, please ensure that you use the supplied 5-PIN ADES™ cable. Please note, other types of MIDI cables may NOT work.***

18. EXPRESSION PEDAL connector - Connect here an optional expression pedal (see page 13 for the list of approved pedals) and control in real time the effects of your PedalPro.

19. Expression Pedal mode selector - Use to ensure the correct functioning of the expression pedal to control the effects of your PedalPro. Please refer to the section of this manual dealing with expression pedals for the correct settings of pedals approved for use with your Pedalino Foot Controller.

> ***Unstable parameter ranges or an unpredictable response of the expression pedal may indicate that the Expression Pedal mode selector is not correctly set for the expression or volume pedal you are using. See page <?>.***

20. POWER switch - Turns the power on and off.

21. DC IN (AC adapter) jack - Connect here the AC adapter supplied.

> ***You must only use the supplied AC adapter. Using any other adapter is not recommended and may cause overheating or mulfunctions.***

22. Cable loop - Pedalino's built-in cable strain relief. Loop the power cord, ADES cable and the patch cable through this loop to prevent accidental disconnections while playing (see section Setup Guide).

23. USB connector - Connect your computer (PC/Mac*) to the Pedalino using this connector when you need to upgrade the firmware of your Pedalino.

** Please check the VR website for system requirements and the latest PedalManager release.*

7.1 CONNECTIONS

Connecting to the PedalPro

For the proper functioning of your Pedalino Foot Controller, you must use the supplied **5-PIN ADES™ cable**. The Pedalino may NOT work with other types of MIDI cables, although some 5-PIN MIDI cables may be compatible.

- Connect the supplied 5-PIN ADES cable to the **ADES connector** (**17**) of the Pedalino and the ADES connector on the PedalPro's front panel.

Connecting to the Main

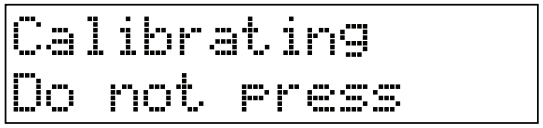
- Plug the AC Adaptor to the **DC connector** (**21**) of the Pedalino, and into a power outlet.

> ***ALWAYS use the supplied AC adapter. To prevent accidental disconnection, especially when playing live, loop the power cord through the cable loop (22).***

7.2 SWITCHING ON

> ***BEFORE switching on the Pedalino, connect the ADES cable between the PedalPro and the Pedalino.***

- Press the **POWER switch** (**20**). The display will show a welcome screen and the current firmware, before showing the following:

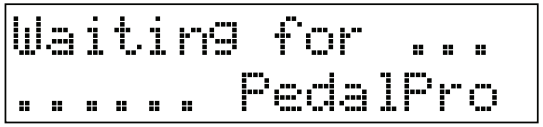


The Pedalino is now calibrating the switching pads. Please do not touch or press the pads until the calibration process is complete.

With the PedalPro Switched OFF

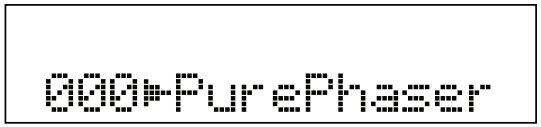
You are able to start up the Pedalino with the PedalPro either switched ON or OFF.

If the PedalPro is switched OFF when you turn on the Pedalino, you will see the following:



The **ADES ON/OFF LED** (**3**) on the Pedalino will blink to indicate that the Pedalino is ready for the ADES connection to be established with the PedalPro.

You can now turn on the PedalPro. Once the PedalPro has started and the ADES connection is established, the Pedalino display will look like this:



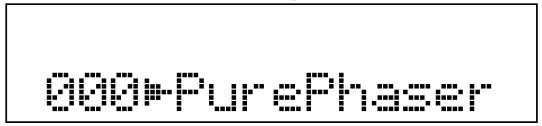
The preset number and name indicate the preset that is currently loaded on the PedalPro. At the same time, the display on the **PedalPro** will show:

This indicates that the PedalPro can now be completely controlled using the Pedalino, and that the controls on the PedalPro are DISABLED. This screen will remain for as long as the PedalPro is controlled by the Pedalino. You are now ready to go.

With the PedalPro switched ON

If the PedalPro is already ON when the Pedalino is switched ON, the calibration process will take place as above. Please do not touch or press the pads until the calibration process is complete.

Once calibration is complete, the ADES connection will be automatically established and you will see the following:

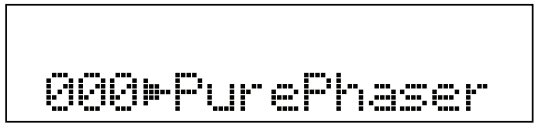


The preset number and name indicate the preset that is currently loaded on the PedalPro. At the same time, the display on the PedalPro will show:

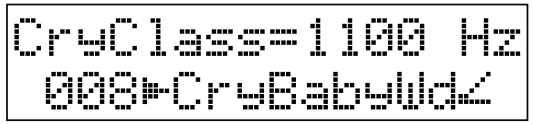
This indicates that the PedalPro can now be completely controlled using the Pedalino, and that the controls on the PedalPro are DISABLED. This screen will remain for as long as the PedalPro is controlled by the Pedalino Foot Controller. You are now ready to go.

Expression Pedal

After connection with the PedalPro has been established, if there is no expression pedal attached to **EXPR. PEDAL connector** (**18**), the display will show:



If you have loaded a preset where one of the parameters can be controlled by the expression pedal, the display of the Pedalino will look something like this:



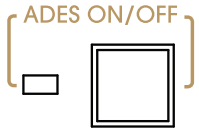
The top line of the display shows the parameter currently controlled by the expression pedal and its instantaneous value. In the example above, it's the centre frequency of the PedalPro inductor filter F1. The centre frequency is currently set at 1.1 kHz (see the special section `ADES - An In-depth Look' on page 22, for more information).

The symbol ⌟ may be manually appended to the name of the preset to act as a reminder that one of the parameters of that preset has been assigned to an expression pedal.

7.3 TEMPORARILY DISCONNECTING PEDALINO

While using the Pedalino to control the PedalPro, all the controls on the PedalPro are purposely deactivated.

However should you need to quickly access the PedalPro's controls (for instance, to modify a preset), you can do so by simply pressing the **ADES ON/OFF switch** (**3**).



The ADES connection will be interrupted, as indicated by the associated LED turning off, and the PedalPro display will revert to normal operating mode. The display of the Pedalino will now show the status of the unit as `**Disconnected**', to remind you that the ADES connection with the PedalPro is no longer active.

To re-establish the ADES connection and use the Pedalino again to control the PedalPro, just press the **ADES ON/OFF switch** (**3**) and the corresponding LED will light up.

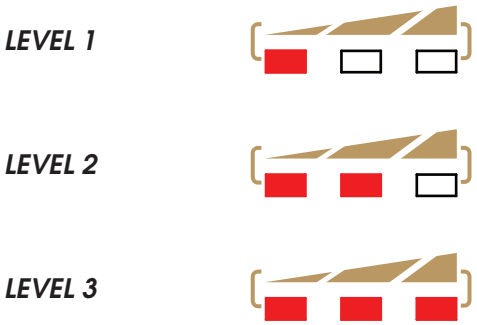
8.1 OPERATING THE MULTI-LEVEL PADS

Your Pedalino comes with four foot-operable multi-level switching pads.

Unlike standard foot switches, these pads have no moving mechanical parts (hence no wear and tear and no mechanical or electrical noise). They operate via force sensors, which respond to the degree of force applied by your foot.

Moreover, they are multi-level sensors, which means that different control actions can be imparted by different levels of force. While this might sound complicated, it is in fact incredibly intuitive to use.

Each pad has up to three different force thresholds, determining three different levels and corresponding actions. Ultra-bright red **LEDs** (**7**) provide you instantaneous feedback on the level of force you are applying.



When you apply enough pressure to reach the first threshold level, one LED will light up, indicating that ***LEVEL 1*** has been activated. Apply enough pressure to reach the second threshold level and two LEDs will light up, indicating that ***LEVEL 2*** has been activated. When enough pressure has been applied to reach the third threshold level,the full line of three LEDs will light up, indicating that ***LEVEL 3*** has been activated.

The **LOAD/SOLO pad** (**15**) operates only at ***LEVEL 1*** – with the corresponding one **LED** (**7**).

When you buy your Pedalino Foot Controller, the thresholds will be set at '**soft**'. Pedalino, however, comes with two factory-defined sets of thresholds: '**soft**' and '**hard**', to accommodate different playing styles. You also have the possibility to adjust the predefined sets, and even to fine-tune the thresholds for each individual pad. See section 8.2.2 – Changing and Customising Thresholds (p.24).
The multilevels pads are translated in different commands depending on the following operational modes: browsing, favourite, virtual board.

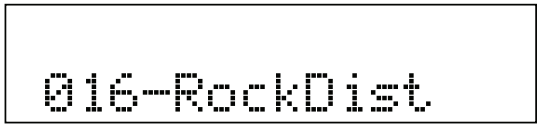
8.2 BROWSING MODE

On the Pedalino Foot Controller, press **switching pads +** (**16**) or **−** (**14**) to scroll up and down through your list of presets. This mode of operating the Pedalino Foot Controller is referred to in this manual as **browse mode**. In this mode of operation, you have access to all 500 presets of your PedalPro. For operating the Pedalino in **favourite mode** and accessing just the 18 favourite presets defined in your PedalPro, see section 8.3, on page 11.

Force feedback LEDs (**7**) provide a visual feedback on the actions performed by the switching pads.

The Pedalino allows you to either scroll through your list of 500 presets one by one, or, for fast-tracking, in groups of 10 or 50. This is determined by the level of force you apply to the switching pads.

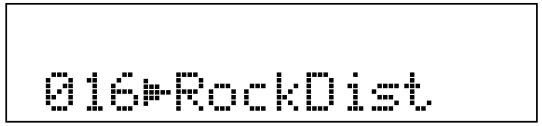
- Press to ***LEVEL 1*** on the switching pads **+** (**16**) and **−** (**14**): one of the **LEDs** (**7**) will light up and the preset number will increase or decrease by **1**.
- Press to ***LEVEL 2*** on the switching pads **+** (**16**) and **−** (**14**): two **LEDs** (**7**) will light up, and the preset number will increase or decrease by **10**.
- Press to ***LEVEL 3*** on the switching pads **+** (**16**) and **−** (**14**): the full line of three **LEDs** (**7**) will light up, and the preset number will increase by **50**.
- Select the preset that you want to load. The bottom line of the display will show the preset selected. In the example below, it is the preset 016-RockDist.



The long dash (–) sign between the preset number and the preset name indicates that the preset is ready to be loaded, but has not yet been loaded.

- Press the **LOAD pad** (**15**) to load the preset (remember: the **LOAD/SOLO pad** operates only at *LEVEL 1* – with the corresponding one **LED** (**7**)).

The display will now look like this:



The arrow sign (▸) between the preset number and the preset name indicates that the preset has now been loaded onto your PedalPro and is ready to be played.

8.3 FAVOURITE PRESETS

Accessing favourite presets – 2-levels and 3-levels favourite access modes

Pedalino allows you to access the 18 favourite presets of your PedalPro in two different ways: using **two levels** of pressure (*LEVEL 1* and *LEVEL 3*) or **three levels** of pressure (*LEVEL 1*, *LEVEL 2* and *LEVEL 3*).

Working with two levels of pressure (2-levels favourite access mode)

When working with **two** levels of pressure, the 18 favourite presets are split into 3 banks. Bank A is favourites 01 to 06. Bank B is favourites 07 to 12. Bank C is favourites 13 to 18.

Using just three pads (**–** (**14**), **LOAD** (**15**) and **+** (**16**)) pressed to reach the appropriate level, *LEVEL 1* or *LEVEL 3*, you can access 6 of your favourite presets (on each bank) in just one tap, without the need to select and load the preset (see Table I).

Working with three levels of pressure (3-levels favourite access mode)

When working with **three** levels of pressure, the 18 favourite presets are split into 2 banks. Bank A is favourites 01 to 09. Bank B is favourites 10 to 18.

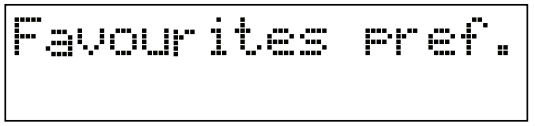
Using just three pads (**–** (**14**), **LOAD** (**15**) and **+** (**16**)) pressed to the appropriate *LEVEL 1* to *LEVEL 3*, this mode allows you to access 9 of your favourite presets (on each bank) in just one tap, without the need to select and load the preset (see Table I).

Whichever mode you choose for accessing your favourite presets using your Pedalino, just reorder the favourite presets of your PedalPro in the order that best suits your gig, and enjoy ultra-fast preset switching.

Switching between two and three levels of pressure

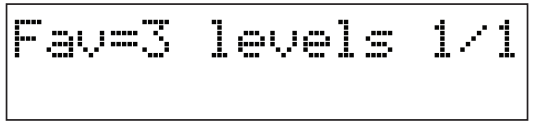
Your Pedalino is set to use three levels of pressure when you turn it on for the first time.

- To switch to using two levels of pressure, press the **MENU key** (**10**) until the top line of the display reads 'Favourites pref.'



- Press the **SET key** (**11**) to access the menu's configuration options.

The top line of the display will now show the current favourite preset access mode. In the example shown here, the default 3-levels mode is selected.



- Use the **+ key** (**8**) or the **- key** (**9**) to switch between 3-levels and 2-levels favourite access modes.

Once the favourite preset access mode you want to use is shown on the top line of the display, the Pedalino is also configured to operate accordingly.

- Simply press the **EXIT key** (**12**) to return to Play Mode.

8.3.1 Switching between favourite preset banks

- To access your favourite presets, press the **Favourites switch** (**4**). The corresponding LED will light up. The Pedalino is now in **favourite mode**.
- Once the Pedalino is set to work in either 2-levels mode or 3-levels mode, you can switch between banks by pressing the pad **BYPASS/MUTE** (**13**) to *LEVEL 2*.

The letter A, B or C on screen denotes the bank of the favourite preset currently selected (see examples below).

8.3.2 Selecting favourite presets

The table below shows the association between favourite presets and the pads **−** (**14**), **LOAD** (**15**), and **+** (**16**), in both 2-levels and 3-levels favourite access modes, when the levels of pressure shown in the table are applied to the pads.

2-levels / Bank A	**Pad -**	**LOAD**	**Pad +**
LEVEL 1	Fav. 01	Fav. 02	Fav. 03
LEVEL 3	Fav. 04	Fav. 05	Fav. 06
2-levels / Bank B	**Pad -**	**LOAD**	**Pad +**
LEVEL 1	Fav. 07	Fav. 08	Fav. 09
LEVEL 3	Fav. 10	Fav. 11	Fav. 12
2-levels / Bank C	**Pad -**	**LOAD**	**Pad +**
LEVEL 1	Fav. 13	Fav. 14	Fav. 15
LEVEL 3	Fav. 16	Fav. 17	Fav. 18
3-levels / Bank A	**Pad -**	**LOAD**	**Pad +**
LEVEL 1	Fav. 01	Fav. 02	Fav. 03
LEVEL 2	Fav. 04	Fav. 05	Fav. 06
LEVEL 3	Fav. 07	Fav. 08	Fav. 09
3-levels / Bank B	**Pad -**	**LOAD**	**Pad +**
LEVEL 1	Fav. 10	Fav. 11	Fav. 12
LEVEL 2	Fav. 13	Fav. 14	Fav. 15
LEVEL 3	Fav. 16	Fav. 17	Fav. 18

TABLE I - Correspondence between pads, pressure levels and favourite presets in 2-levels and 3-levels favourite access modes.

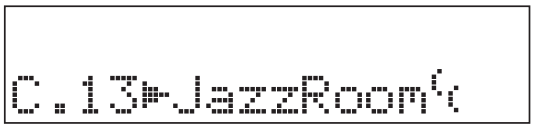
Examples: 2-levels favourite access mode

If your Pedalino is set to work in **2-levels mode** and **bank A** is selected, by pressing pad **−** (**14**) to *LEVEL 1*, favourite preset 01 will be loaded directly and will be immediately available to play. The display of your Pedalino will show:

The letter A indicates you are working with bank A. You will also notice that the preset number is only two characters long instead of the usual three. This is an indication that you are working with favourite presets.

If you now press on **LOAD pad** (**15**) to *LEVEL 3*, favourite preset 05 will be directly loaded (see Table I) and the display will show:

With the favourite preset bank switched to **bank C**, by pressing pad **−** (**14**) to *LEVEL 1*, favourite preset 10 will be loaded and available to play. The display of your Pedalino will show:



By pressing on pad **LOAD** (**15**) to *LEVEL 3*, favourite preset 17 will now be directly loaded, and the display will show:

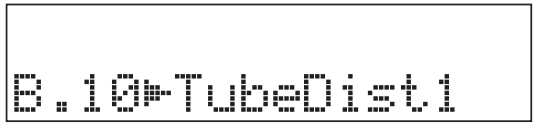
Examples: 3-levels favourite access mode

When your Pedalino is set to work in **3-levels mode** and **bank A** is selected, by pressing pad **—** (**14**) to *LEVEL 1*, favourite preset 01 will be loaded, like in the prevoius example. The display of your Pedalino will show:

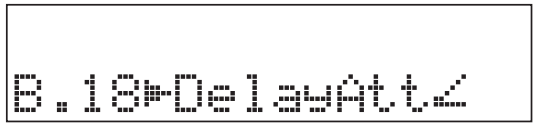
Once again, the letter A indicates the selected favourite bank.

If you now press on **LOAD pad** (**15**) to *LEVEL 3*, favourite preset 08 will be loaded (see Table I) and the display will show:

With the favourite preset bank switched to **bank B**, by pressing pad **—** (**14**) to *LEVEL 1*, favourite preset 10 will be loaded and available to play. The display of your Pedalino will show:



By pressing on pad **+** (**16**) to *LEVEL 3*, favourite preset 18 will now be loaded, and the display will show:



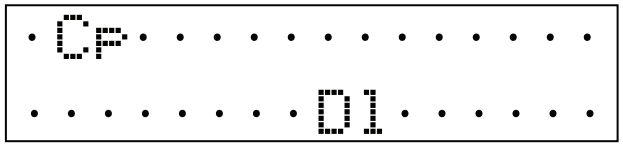
8.4 VIRTUAL BOARD MODE

The virtual board mode transforms your Pedalino into a pedal board allowing the user to switch on/off effects or group of effects, to assign specific function of the expression pedal and to send midi program changes.
There are four editable virtual boards (Rock, Blus, Fusn and Funk) which operates globally on the different presets.
Each preset is assigned to one the four available virtual boards from the PedalPro. The virtual board Rock is assigned by default to all presets. To change the virtual board type (refer to section 10.2.3, PedalPro's user manual).

Entering in virtual board mode:

- From a loaded preset either in browsing or favourite modes press and hold the **BYPASS/MUTE pad (13)** to **LEVEL 2** for about **2 seconds**.

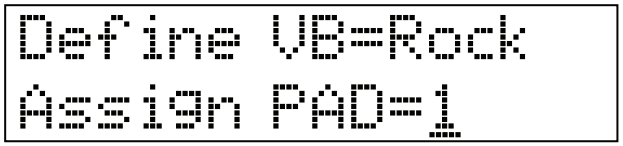
The display will temporarily (1 sec.) visualize the virtual board name and than the full preset layout.
If the preset has the Compressor and Delay on, the display will point out as following:



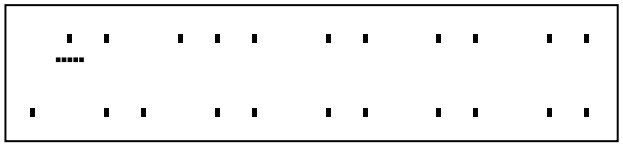
8.4.1 Assigning effect to a pad of the virtual board

At the first pressure level of the virtual board mode, the Pedalino's four pads are used to activate and deactivate individual effects or group of effects.

- To assign an effect or a grouped of effects to a pad, press Menu Key (10) to enter in the assign page. The display shows on the top line the selected virtual board (eg. Rock) while the bottom line shows the pad you wish to assign. The pad are numbered from left to right. Therefore the Pad=1 correspond to the Pad Bypass/Mute while the Pad=4 correspond to Pad+
- To select a different Pad use the **+ Key (8)** and the **- Key (9)**.

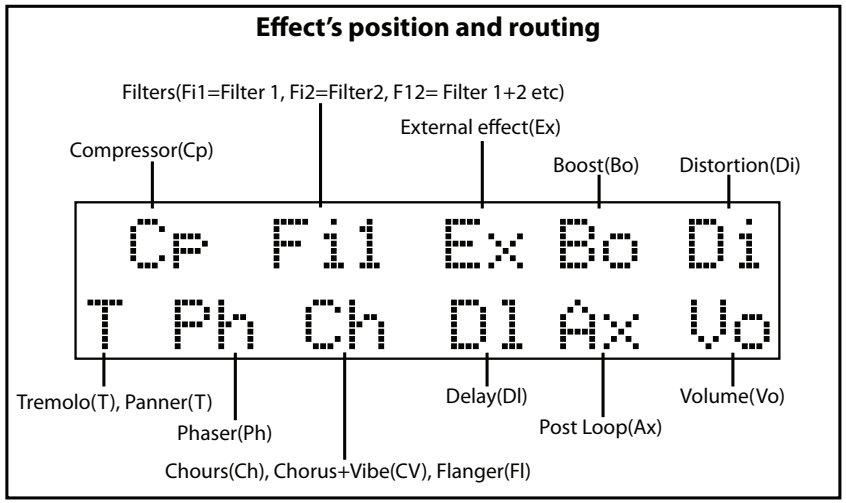


- Press **Set Key (11)** to enter in the editing page of the selected Pad.



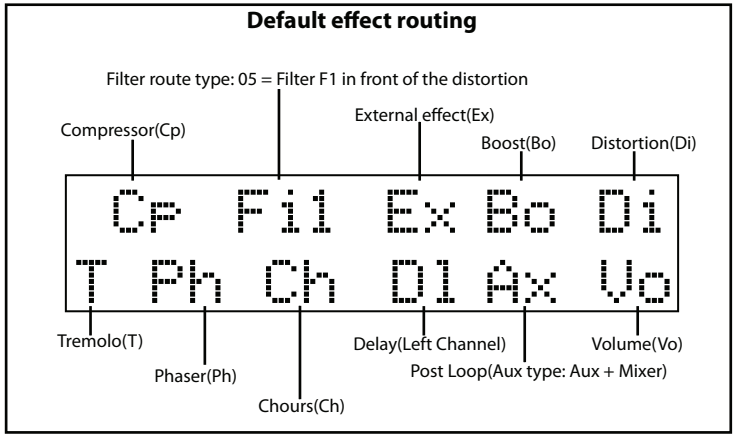
From this page, you can assign to a specific pad one or more effects.

- Use the **+ Key (8)** and the **- Key (9)** to navigate through the effect chain and the **Set Key (11)** to toggle a specific effect (refer to the effect position diagram).



- If you wish, repeat the last two points for the other pads and return to the main page by pressing the Exit. The virtual board settings are automatically stored in the Pedalino and the virtual board is ready to be used.

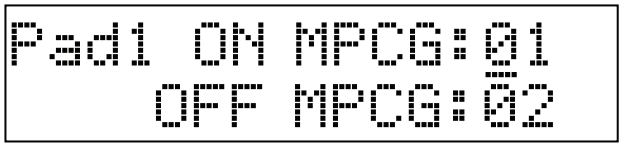
When the Pedalino enters into virtual board mode, it retrieves automatically the corresponding routing based on the preset definition (see above Effect position and routing).
If a preset is an empty one, the default routings are loaded as following:



8.4.2 Assigning midi program change to pads of the virtual board

In the virtual board mode, the first pressure level of each pad can be assigned to a midi program change. This function is mainly used to switch channels of a tube amp or preamp via midi.
All the midi program changes are sent via the PedalPro's midi out connector according to the midi channel definition as stored in the global settings of PedalPro MIDIOUT channel page (**Send PChg2 -> Ch=01**).

- Press **Menu Key (10)** to enter in the configuration page and select the Pad that you wish to assign to midi program change (example Pad1).
- To select a different Pad use the **+ Key (8)** and the **- Key (9)**.
- Press **Menu Key (10)** to enter in the MIDI configuration page.

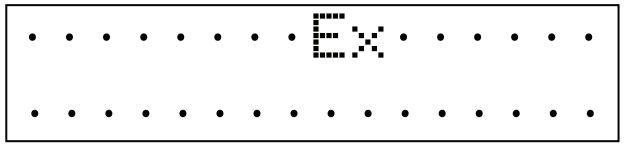


- Use the **Set Key (11)** to switch between the display lines and the **+ Key (8)** and the **- Key (9)** to adjust the value.

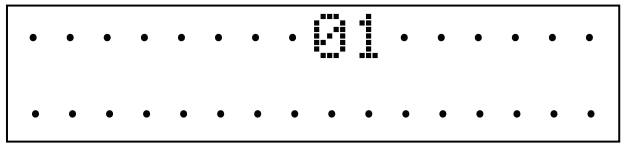
In the example above, the Pad1 is used to send midi program change 01 when is turned on and midi program change 02 when is turned off.

- Press **Exit Key (12)** twice to save and to go back to the main page.

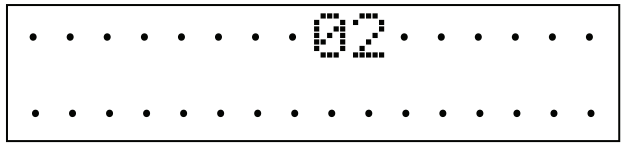
In case a the external loop is set on (EX), the midi program change is monitored in the position of the string EX of the display.
As an example let's consider a preset having just the external loop (EX) on.
When you enter the virtual board mode the display will look like this:



Once the Pad1 is pressed the midi program change 01 will be sent via the Pedalpro and monitored in the display:



When the Pad1 is pressed again, the midi program change 02 will be sent and the display will show the following:



8.4.3 Expression pedal functions

By using anyone of four pads at the pressure LEVEL 3, you can assign the four different functions for the expression pedal:

Pad 1 (Bypass)= Tap tempo via expression pedal
Pad 2 (-)=Turn On/Off the Wah
Pad 3 (Load)= Assign the ADES parameter to expression pedal
Pad 4 (+) =Turn On/Off the Volume pedal

The function of the expression pedal is identified on the display by the underline char _ below an effect or note (tap tempo) as explained in 8.4.5
Each time you change the function of the expression pedal, the underline char moves accordingly to inform the user on which operation is assigned to.

8.4.4 Reset virtual board changes

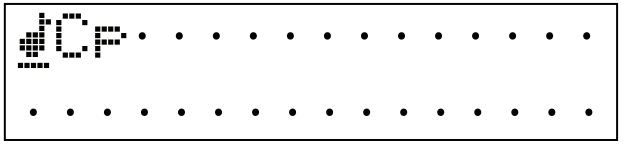
By using the virtual board you can activate and deactivate different effects and therefore change the preset chain. If you wish to restore the preset chain as originally defined, you can hold and press the Pad3 to Level 3 for about 2 sec.

8.4.5 Operating with the virtual board

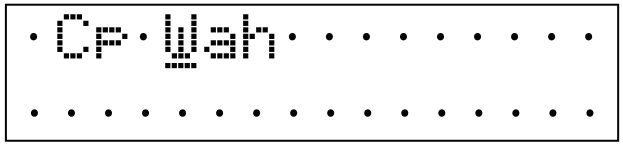
Once you enter the virtual board mode, you can use the pressure pads to activate/deactivate effects or to change the function of the expression pedal.
The following table gives you an overview of the pad commands at different pressure levels.

	PAD1	PAD2	PAD3	PAD4
LEVEL 1	On/Off selected effect/s	On/Off selected effect/s	On/Off selected effect/s	On/Off selected effect/s
LEVEL 2	Enter/Exit from Virtual Board Mode	Not used	Not used	Not used
LEVEL 3	Tap Tempo	Wah Effect	Expression parameter	Volume Control

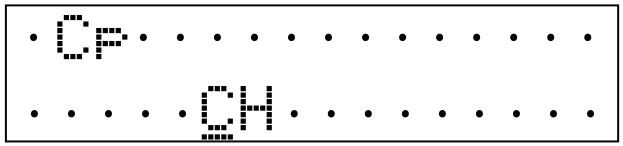
When you select the Tap Tempo (Pad1, Level3), a light note will appear on the left corner of the display:



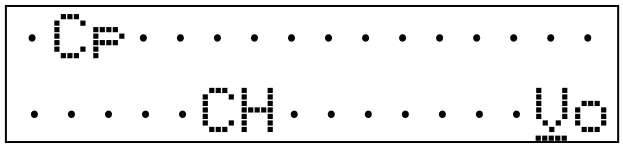
When you select Pad2 at Level 3, the expression pedal turn into a wah pedal.



If you select the ADES parameter (Pad3, Level 3) the blinking underline will be positioned below the effect that contains the ADES parameter as assigned by the preset definition.
In the following screenshot the ADES parameter is assigned the depth of the Chorus.



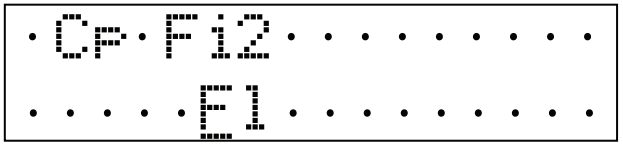
If you wish to activate the volume pedal and change the volume via the expression pedal use Pad4 at Level 3.
The display now look like this:



Virtual board in practice.
Lets start with a preset defined by the following effects: Compressor , Filter F2 (route type: 03), and Flanger. The ADES parameter is assigned to the Flanger_ Wet.

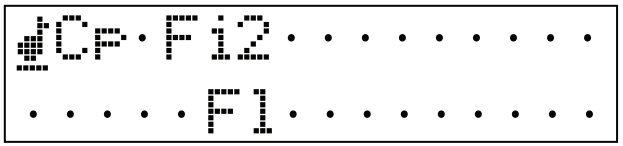
Furthermore the virtual board rock was previously set as following:
Pad 1= On/Off Compressor
Pad 2= On/Off Filters
Pad 3= On/Off Flanger
Pad 4= On/Off Delay

When you enter the virtual board Rock from browsing or favourite mode the display will look like:



At this point you wish to set Tempo of the flanger.

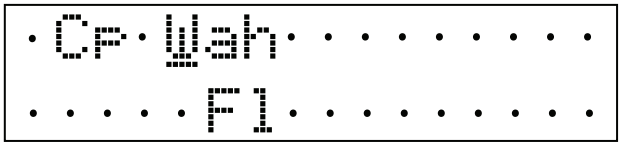
- Press **PAD1 to Level 3** (the underlined note will appear to confirm that the expression pedal is used to set the Tap Tempo).



Now you wish to turn on the Wah.

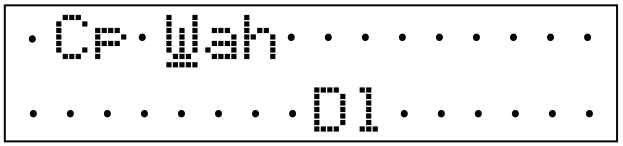
- Press **PAD2 to Level 3.**

You will notice that the Fi2 will be replaced by the string Wah and while the Tap Tempo continues to flash the expression pedal is turned to a Wah Pedal.



Now you might want to turn off the Flanger and activate the Delay.

- Press **PAD3 to Level 1** and **PAD4 to Level 1.**

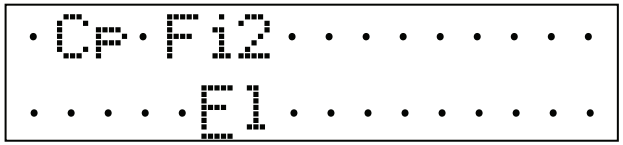


As you see from the display, the expression pedal is still controlling the Wah.

If you desire to restore the preset prior to the use of the virtual board,

- Press PAD3 and hold Level3 for more then 2 sec.

The display will look like this:



NOTE: When you are using the expression pedal to control either the Wah or Volume effects (engaged by pad2 level 3 or pad4 level 3 respectively), and you are switching to a different function for the expression pedal (using pad1 level 3 or pad3 level 3), the PedalPRo will freeze the wah or volume effect to the value set with the expression pedal at the moment of switching to the new expression pedal function. This way you will get either a static wah or a new master volume, while using the expression pad for the other functions corrisponding to pads 1 and 3. To disengage these, switch off the wah or volume effects the same way they are engaged: select pad2 level 3 to disengage the wah or pad4 level 3 to disengage the volume.

8.5 FUNCTION OF THE CONTROL PAD

The control pad (first pad on your left) can perform different functions based on the operating mode.

	Browsing mode	*Favourite mode*	*Virtual board*
LEVEL 1	*Bypass*	*Bypass*	*Effects Switch*
LEVEL 2	*Enter Virtual Board*	*Switching banks / Enter Vir. Board*	*Exit Virtual Board*
LEVEL 3	*Tuner*	*Tuner*	*Tap Tempo*

8.5.1 Bypassing PedalPro

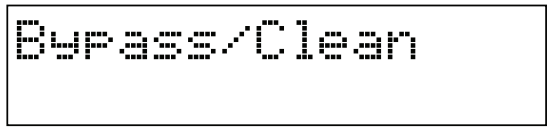
- To fully bypass the PedalPro, press the **BYPASS/MUTE pad** (**13**) to *LEVEL 1*. The **BYPASS LED** (**1**) will light up.

On the PedalPro, you will also see that the red BYPASS indicator light is now on. To turn the bypass mode off, simply press the **BYPASS/MUTE pad** (**13**) to *LEVEL 1* again.

8.5.2 Customising Bypass Mode

This new feature gives you the possibility to set the Bypass Mode in two different ways: **standard** and **prst 000**. When the Bypass Mode is set on **standard**, everytime you activate the Bypass Mode you get a dry sound without effects.
The bypassing function is replaced by the effect/s defined in preset 000 which the user consider as being his basic sound (CLN->clean sound).
Since the preset 000 is fully editable, you can create the clean channel as you wish, and recall it instantaneously with the bypass pad. In this configuration the expression's parameter is not adjustable via Expression Pedal since the bypass is used as well for setting or removing TAP Tempo.

- With the Pedalino in **browse mode**, press **MENU key (10)** until the top line of the display reads 'Bypass/Clean'.



- Press the **SET key** (**11**) to access the configuration page.

- To set the Bypass parameter on **standard** or **prst 000** , use the **+ key** (**8**) or the **– key** (**9**).
- Press **EXIT key** (**12**) twice to automatically save your settings and to return to **browse mode** or **favourite mode**.

8.5.3 Tuner/Mute Functions

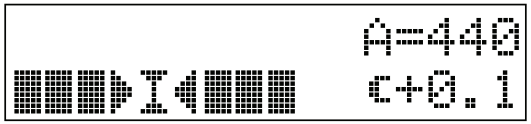
Pedalino Foot Controller allows you to access and control the high-precision tuner included in your PedalPro. This means that all the information on the tuning status of your guitar will be displayed on your Pedalino. Pedalino's bright, over-sized display is ideal for the purpose.

- To activate the tuner, press the **BYPASS/MUTE pad** (**13**) to *LEVEL 3*.

The **MUTE/TUNER yellow LED** (**2**) on the left side of the Pedalino will now light up.

On the PedalPro, you will see that the yellow MUTE LED has lit up. In this configuration, the tuner is now activated and the PedalPro is soft-muted (>35 dB attenuation) to allow you to quietly tune your guitar, without sending almost any sound to the amplifier*.

The tuner screen of your Pedalino contains the following items:



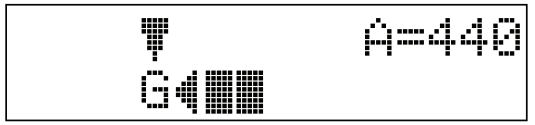
A=440 – This indicates the reference note used for the tuning, A = 440 Hz.

Tuning Bar & String Indicator – The **tuning bar** shows graphically the tuning status of your string. It is composed of a **central line** (I) and a **variable-length bar** (▮▮▮▶ ◀▮▮▮) on either side the central line. As you start tuning, the tuner recognises the string being tuned, as long as the string is approximately within ±50 cents of its reference pitch. The **string indicator** will appear on the screen, replacing the central line and showing the string being tuned (see next section '*How to Tune a String*'). If the string is outside the ±50 cent range, the string indicator may show the nearest note to the current pitch value of the string. The longer the variable-length bar, the more out of tune the string. With the help of the tuning bar, you can achieve the **regular level** of tuning accuracy, i.e., within ±3.2 cents from the reference tuning.

Pitch Indicator – The pitch indicator shows the deviation in cents (C) from the string's reference pitch. The pitch indicator appears only once the string has been tuned within the regular precision level and it is used to achieve the **fine tuning level**, i.e., within **±0.4 cent** of the string's reference pitch.

How to tune a string

- Start tuning any string of your guitar. The tuner will automatically detect the string§. In this case, the G string has been detected:



The **string indicator** (G) has replaced the central line and shows the detected string. The blinking triangle (▼) above the string indicator shows that the signal received by the tuner is strong enough to detect the tuning status of your instrument. If the triangle disappears, hit the string of your instrument once again. The tuning bar appearing to the **right-hand side** of the central line shows that the string is **pitched too high** (i.e., above its reference pitch). As the string is still outside the fine tuning range, the pitch indicator does not appear.

If the moving tuning bar appears to the **left-hand-side** of the central line, the string is **pitched too low**, and still outside the fine tuning range.

When you see only the string indicator and the **pitch indicator** appears, you are within ±3.2 cents of the string's reference pitch (in the example above, 0.7 cents below the perfect pitch). You can now use the pitch indicator to refine the tuning of the string to within ±0.4 cent of its reference pitch.

Turning the tuner mode off

- To get out of tuner mode, press the **BYPASS/MUTE pad** (**13**) to *LEVEL 3*.

§ If the string is within ±50 cents of the reference tuning

** See the PedalPro Owner's Manual for more details on the tuner (available on VR website).*

When you are using the tuner, the ADES ON/OFF switch (3) is deactivated and you cannot interrupt the ADES connection with the PedalPro.

8.5.4 Switching banks in favourite mode

In favourite mode the control pad at Level 2 is used to switch among banks. For more information on this matter refer to chapter 8.3 page 11.

8.5.5 Enter and exit Virtual board

To enter or exit the virtual board mode press and hold the control pad at the Level 2 for more than 2 sec.

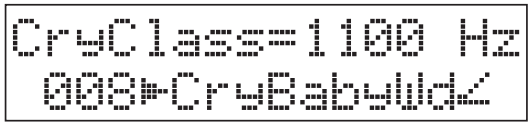
8.6 FUNCTIONS OF THE EXPRESSION PEDAL

The expression Pedal can be used either to control an analogue parameter or to set the Tap Tempo.

8.6.1 Using an Expression Pedal

Pedalino allows you to control in real-time a number of the parameters of the analogue effects on your PedalPro using an expression pedal. The table below gives you a list of compatible models.

- Plug the expression pedal into the **EXPR. PEDAL connector** (**18**) at the back of the Pedalino using a standard stereo patch cable. The **EXP. MODE switch** (**19**) must be set according to the table shown in Appendix A at the end of this manual (page 33) if the expression pedal is to work correctly. You may need to use a pen, screwdriver or similar tool to set the **EXP. MODE switch** (**19**) (it is recessed by design to prevent accidental switching).
- Now assign to the expression pedal the parameter you wish to control. You must do this via the ADES menu page on the PedalPro. Please refer to the PedalPro Owner's Manual for details on how to do this.
- Load the preset using your Pedalino and following the steps detailed in sections 8.1 and 8.2. The display of the Pedalino will now look like this:



The top line of the display indicates the name of the parameter that you can control in real-time, and its current value.

Using the expression pedal, you can now sweep in real-time through the predefined range* of that parameter. For extra information on the list of available parameters that you can control in real-time, and their predefined ranges, see the section below: 'ADES - An In-Depth Look'.

Please check the table in Appendix A at the end of this manual. The table shows the correct position of **EXP. MODE switch** (**19**) when using some of the most popular expression pedals on the market. If your expression pedal is not shown in the table, you may have to experiment with the position of **EXP. MODE switch** (**19**) in order to find the appropriate setting.

The PedalPro is disabled when the ADES connection between the PedalPro and Pedalino is active. If you want to create or modify the assignment to your expression pedal of an effect's parameter, you must first temporarily disconnect the two units using the ADES ON/OFF switch (3). Once you have made your modifications, save the preset. Now press the ADES ON/OFF switch again to reconnect the Pedalino to the PedalPro, and try out your new expression parameter setup.

8.6.2 Using Tap Tempo

Tap Tempo allows you to set the tempo to one or all the time-based effects (modulation and delay) by using an Expression Pedal according to the definition of the ***Assign*** parameter (**See** page 50 of the PedalPro's manual).

Assign Expression pedal to the Tap Tempo

- If you are in Browsing or Favourite mode press the **BYPASS/MUTE pad (13)** to ***LEVEL 1*** to enter in the Bypass Mode or press the **BYPASS/MUTE pad (13)** to ***LEVEL 3*** if you are in the Virtual Board Mode.

Setting Tap Tempo

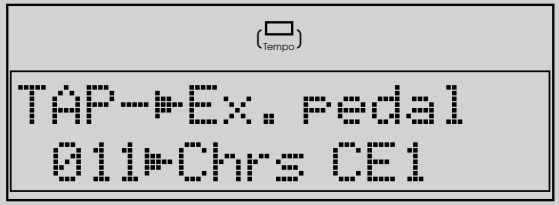
- Rock the expression pedal to toe position four times and the PedalPro will average the four beats into the new Tempo. If the averaged Tempo is within the range 60BPM to 300 BPM, the LED's Tempo will flash at the set Tempo.
- Your Tap Tempo is now **switched On** and you will notice that the LED's Tempo above the Pedalino's display starts to blink at the same tempo you tapped in.
- Remove the Bypass to play with your new Tap tempo setting by pressing the BY-PASS/MUTE pad (13) to LEVEL 1.

Resetting the Tap Tempo

- Assign the Expression pedal to the Tap Tempo as described above.
- Sweep your Expression pedal from heel to toe position and hold for about 2 seconds. You notice that the LED's Tempo will stop blinking. As result the Tap Tempo is reset to the tempo as originally stored in the preset.
- Press the **BYPASS/MUTE pad** (**13**) to *LEVEL 1* to return at your Preset if you are in Browsing or Favorite mode.

TIPS & TRICKS - TAP TEMPO

- You can also control your Tap Tempo on the fly without entering in the Bypass Mode as long as your Preset is not using the expression pedal to control an Expression parameter (**ExprCtrl=none** from the PedalPro's ADES page 48 of the PedalPro's manual).
- Your Pedalino's display may appear like the one below and the top line (**Tap->Ex.pedal**) confirms that your Tap Tempo is ready to be used:



Keep in mind that the Tap Tempo operates in a range between 60 to 300 BPM for the modulation effects and between 98 to 300 BPM for the Delay. If you tap in a lower tempo than 98 but above 60 BPM, your Delay's Tempo will be set automatically to 98 BPM. As result your LED's Tempo and your Delay's Tempo will be out of sync to each other.

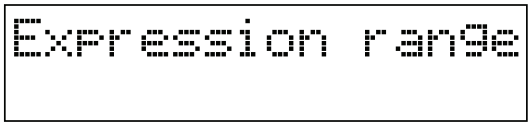
8.6.3 User-defined Expression parameter ranges

Pedalino allows you to customise the ranges of some of the expression parameters associated to your expression pedal. This allows you to define a precise range for the parameters you want to control in real-time that exactly matches your expression requirements.

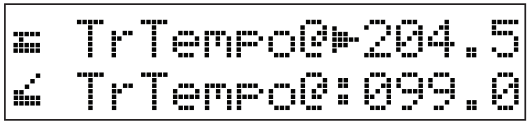
You will find a list of the expression parameters with customisable ranges indicated with the symbol @ in the table on page 23.

How to customise an expression parameter range

- Press the **MENU key** (**10**) until the top line of the display reads 'Expression range'.



- Press the **SET key** (**11**) to access the range configuration page.



The last expression parameter accessed and/or adjusted will appear on the screen. In the example shown above, it was the Tempo of the Tremolo/Panner effect.

The top line of the display shows the **upper limit** of its range. This corresponds to the position of your expression pedal when fully depressed (▀). The bottom line of the display shows the **lower limit** of the range. This corresponds to the position of your expression pedal when fully released (▁).

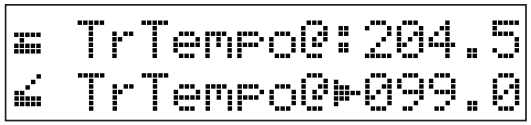
In the example above, the expression pedal is set to sweep the tempo of the Tremolo/Panner effect from 99.0 to 204.5 BPM (beats per minute).

The triangular arrow (▸) between the parameter name and its value indicates which one of the two range's limit is now active. In the example above, it is the upper limit.

- Press the **ADES switch** (**3**), located next to the top line of the display, to activate the upper limit (top line of the display).
- Press the **Favourites switch** (**4**), located next to the bottom line of the display, to activate the lower limit of the parameter range (bottom line of the display):

You can now adjust the active limit using the **+ key** (**8**) and the **– key** (**9**) to increase or decrease its value.

For instance, by activating the upper limit of the expression parameter range (**ADES switch** (**3**)) and using the **– key** (**9**), it is possible to reduce the upper limit of the Tempo range to 160.0 BPM. The range swept by a full sweep of the expression pedal is therefore reduced to 99.0 -160.0 BPM:



- Press **EXIT key** (**12**) to return to **browse mode** or **favourite mode** once you have set the ranges of the user-defined expression parameters. The new ranges will be saved in your Pedalino and recalled every time that parameter is used in association with the expression pedal.

ADES™ - AN IN-DEPTH LOOK

PedalPro and Pedalino communicate using a specific protocol designed by VR called ADES™ (Advanced effect DEScriptor). The ADES protocol is a bidirectional data protocol used for controlling the effects' parameters.

Why a new protocol?

The MIDI protocol was designed in the 70's for simple one-way data communication. For our purposes at VR, we needed a more flexible, bidirectional data communication protocol that would allow for the control of effects' parameters with different resolutions, while also using fewer data packets and maintaining opto-isolation between the PedalPro and Pedalino.

What you can do with it

It is the ADES protocol that makes it possible for you to control, in real-time, the parameters of PedalPro's effects using your Pedalino with an expression pedal attached. ADES also makes it possible for you to enjoy the unprecedented amount of control brought about by the SOLO Mode*, turning your Pedalino into a 'virtual pedalboard'.

The effect's parameters that you can control, and their ranges, are listed in the grid on the next page. Parameters with *user-defined* ranges, at the end of the table, are available only with the optional firmware expansion pack for Pedalino installed.

No need for programming

Like with the MIDI CC (continuous controller), the Expression Parameter Control assignment located in the menu of the PedalPro allows you to assign one of the parameters of PedalPro's effects to your expression pedal. However unlike a MIDI CC, there's no convoluted programming needed in order to achieve a smooth sound control. Once you have selected it, you are ready to play.

The ADES protocol also offers a much higher resolution, allowing you to avoid the unpleasant uneven sound control variation typical of a MIDI CC.

Parameter name		Description	Range		Unit
0	--none--	None parameter assigned			
1	CryClass	Crybaby classic, centre frequency	370	1968	Hz
2	CryMedRn	Crybaby, midrange	370	1405	Hz
3	CryNarrw	Crybaby, narrow range	204	1377	Hz
4	F1_maxim	Auto filter F1, max frequency	370	1968	Hz
5	F1_start	Envelope filter F1, start frequency	370	1166	Hz
6	F1_sensi	Envelope filter F1, sensitivity	6.2	68.8	%
7	Q1_filtr	Filter Q1, Q (Quality) factor	1	18	
8	F1_tempo	Auto filter F1, tempo	80	240	BPM
9	F2_HiRng	Filter F2, high range	946	2055	Hz
10	F2_LoRng	Filter F2, low range	204	1375	Hz
11	F2_Narrw	Manual filter F2, narrow range	565	1567	Hz
12	F2_maxim	Auto filter F2, maximum frequency	334	2695	Hz
13	F2_start	Envelope filter F2, start frequency	232	1420	Hz
14	F2_sensi	Envelope filter F2, sensitivity	6.2	68.8	%
15	Q2_filtr	Filter F2, Q (quality) factor	1	16	
16	F2_tempo	Auto filter F2, tempo	80	240	BPM
17	Phas_dep	Phaser, depth	20	100	%
18	Phas_man	Phaser, manual	0	100	%
19	Ph_tempo	Phaser, tempo	28	160	BPM
20	Trem_dep	Tremolo or panner, depth	0	100	%
21	TremSpec	Special tremolo or panner, depth	35.2	90.1	%
22	Tr_tempo	Tremolo or panner, tempo	100	300	BPM
23	BoostGnD	Preamp, boost gain: distortion range	8	25	dB
24	BoostGnO	Preamp: boost gain: overdrive range	-6	8	dB
25	Cmp_sens	Compressor, sensitivity	0	100	%
26	Cmp_Attk	Compressor, attack	83	3	ms
27	DistTone	Distortion, tone	23.8	65	%
28	Volume#0	Stereo output level, wide range	1.5	100	%
29	Volume#1	Stereo output level, middle range	9.8	100	%
30	Volume#2	Stereo output level, narrow range	18.4	100	%
31	Volume#3	Stereo output level, ultra narrow range	37.2	100	%
32	Chrs_dep	Chorus, depth	0	100	%
33	Chrs_wet	Chorus, wet/dry ratio	0	100	%

Parameter name		Description	Range		Unit
34	Ch_tempo	Chorus, tempo	40	320	BPM
35	Vibe_dep	Vibe, depth	0	100	%
36	Flng_reg	Flanger, regen	0	100	%
37	Flng_dep	Flanger, depth	0	100	%
38	Flng_man	Flanger, manual	0	100	%
39	Flng_wet	Flanger, wet/dry ratio	0	100	%
40	Fl_tempo	Flanger, tempo	28	160	BPM
41	Dely_wet	Delay, wet/dry ratio	0	50	%
42	Dely_fbk	Delay, feedback	0	100	%
43	Detu_dep	Detuner, depth	0	18.4	%
44	Dly_time	Delay, time	100	43	ms
45	FS_tempo	Stereo filters, tempo	80	240	BPM
46	Fsynch_th	Filters, HumanSynch (HSynch) threshold	0	100	%
47	Vw i-yoh	Auto vowel filters F1+F2 (F1 is displayed)	370	723	Hz
48	Vw i-yah	Auto vowel filters F1+F2 (F1 is displayed)	370	885	Hz
49	Vw oo-wa	Auto vowel filters F1+F2 (F1 is displayed)	425	1115	Hz
50	F1_user@	Filter F1, manual range	user def	user def	Hz
51	F2_user@	Filter F2, manual range	user def	user def	Hz
52	F_tempo@	Stereo filters, tempo	user def	user def	BPM
53	Tre_dep@	Tremolo or panner, depth	user def	user def	%
54	TrTempo@	Tremolo or panner, tempo	user def	user def	BPM
55	PhTempo@	Phaser, tempo	user def	user def	BPM
56	ChrsWet@	Chorus, wet/dry ratio	user def	user def	%
57	ChTempo@	Chorus, tempo	user def	user def	BPM
58	FlngWet@	Flanger, wet/dry ratio	user def	user def	%
59	FlngReg@	Flanger, regen	user def	user def	%
60	FlTempo@	Flanger, tempo	user def	user def	BPM
61	Dly_inp@	Delay input signal level	user def	user def	%
62	Dly_out@	Delay, output signal level	user def	user def	%
63	Dly_fbk@	Delay, feedback	user def	user def	%
64	DlyTime@	Delay, time	user def	user def	ms
65	BoostGn@	Preamp, boost gain	user def	user def	dB
66	Volume#@	Stereo output level	user def	user def	%
67	AuxWtLR@	Wet signal from the external effect	user def	user def	%
68	MIDICC11	MIDI expression via Midi OUT	0	127	

8.7 ADJUSTING PEDALPRO'S EFFECTS ON-THE-FLY

Pedalino allows you to change several key parameters of your PedalPro's effects direct from the Pedalino. This enables you to fine-tune and adjust your sound on-the-fly when performing live, to match the type of gig or venue you are playing, without having to disconnect your PedalPro.

The following parameters are directly accessible:

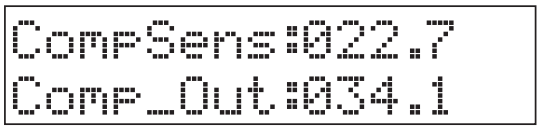
1 - **CompSens** - Compressor sensitivity
2 - **Comp_Out** - Compressor output
3 - **DistTone** - Distortion tone
4 - **DistLevl** - Distortion level
5 - **Boost_Gn** - Preamp boost gain
6 - **NgateLevl** - Noise gate level
7 - **TremDepth** - Tremolo Depth
8 - **PhasDepth** - Phaser Depth
9 - **ChrsDepth** - Chorus Depth
10 - **ChorusWet** - Chorus Wet
11 - **Chorus_In** - Chorus input
12 - **VibeDepth** - Vibe Depth
13 - **FlngRegen** - Flanger Regen
14 - **FlangeWet** - Flanger Wet
15 - **DelyFbak** - Delay feedback
16 - **Delay_Wet** - Delay Wet
17 - **Delay__In** - Delay input
18 - **Delay_Out** - Delay output
19 - **DetuSpeed** - Detuner speed
20 - **DetuDepth** - Detuner Depth
21 - **Aux_Dry** - Aux Dry
22 - **Aux_Wet** - Aux Wet

These parameters can be adjusted in real-time. Any change can be immediately stored within the preset and will be available next time you load that preset (see section below: Protecting PedalPro's presets).

> ***You cannot modify PedalPro's effect chain from your Pedalino.***

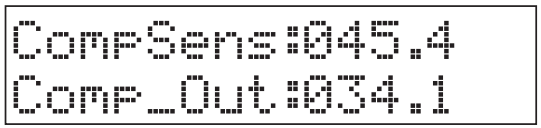
8.7.1 Adjusting parameters on-the-fly

- To adjust one of the parameters listed above, press the **SET key** (**11**) while the Pedalino is in **browse mode or in favourite mode or in virtual board mode** and the ADES connection with your PedalPro is active. The display will now look like this:



You now have access to the compressor sensitivity and the current value is set at 22.7.

- To change another parameter, press the **SET key** (**11**) repeatedly to scroll through the list of available parameters. You can also use the **Favourite switch** (**4**) and the **ADES switch** (**5**) to scroll forwards and backwards through the list of available parameters.
- Use the **+ key** (**8**) and the **– key** (**9**) to adjust the compressor sensitivity to, for instance, the new value of 45.4.



- Once you are done, press the **EXIT key** (**12**).

> ***If the preset save protection is turned OFF (see below) the changes will be stored in your PedalPro. If it is turned ON, they will be kept only until you load a different preset.***

8.8 PEDALINO PREFERENCES

Every time you power on the Pedalino its preferences are automatically loaded to allow full control of the device as performed in the prior use.

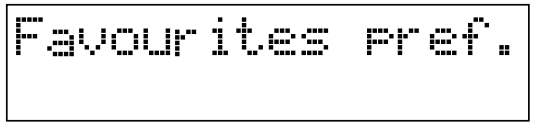
Therefore, most of the settings that will follow this section will be edited only the first time you turn on your unit.

8.8.1 Favourite preferences

Switching between two and three levels of pressure

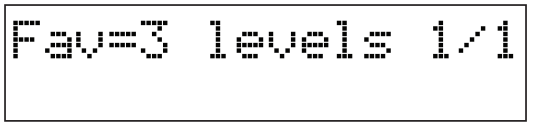
Your Pedalino is set to use three levels of pressure when you turn it on for the first time.

- To switch to using two levels of pressure, press the **MENU key** (**10**) until the top line of the display reads 'Favourites pref.'

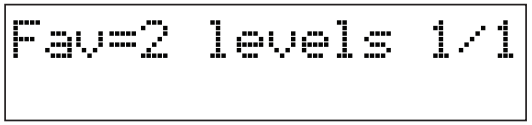


- Press the **SET key** (**11**) to access the menu's configuration options.

The top line of the display will now show the current favourite preset access mode. In the example shown here, the default 3-levels mode is selected.



- Use the **+ key** (**8**) or the **- key** (**9**) to switch between 3-levels and 2-levels favourite access modes.



Once the favourite preset access mode you want to use is shown on the top line of the display, the Pedalino is also configured to operate accordingly.

- Simply press the **EXIT key** (**12**) to return to Play Mode.

8.8.2 Changing and customising thresholds

Pedalino comes with two factory-defined sets of thresholds (global thresholds) which determine the degree of force that must be applied to each control pad in order to reach the three levels that control the various functions (see section 8.1). The two factory-defined sets are '**soft**' and '**hard**'.

The '**soft**' set requires the least amount of force to reach the different levels,

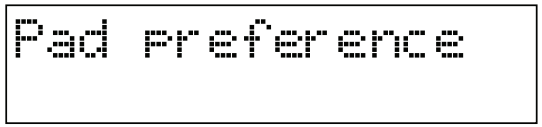
as indicated by the LEDs, and is designed for those who want more sensitive pads, or for use when playing sitting. The '**hard**' set requires the most force, and is designed for people who prefer less sensitive pads, or for use when playing in a standing position.

If you want more control over the responsiveness of your Pedalino, you can customise the sets of thresholds to better suit the amount force you want to apply. You can do this either by adjusting the global threshold sets and thus the thresholds of all four pads at once, or adjusting individual pad thresholds.

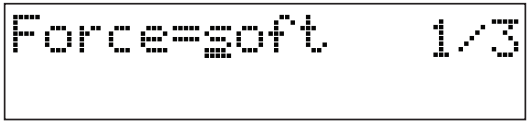
8.8.3 Switching between the predefined thresholds

The first time you turn on the Pedalino, the 'soft' set will be loaded.

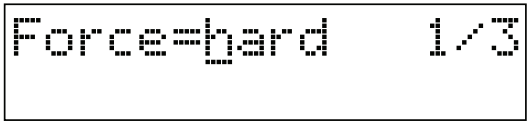
- To switch the threshold configuration from 'soft' to 'hard' and vice versa, press the **MENU key** (**10**) until the top line of the display reads 'Pad Preference'



- Press the **SET key** (**11**) to enter the 'Pad preference' menu. Page 1 of 3 of the menu shows the set of thresholds currently in use, in this case, 'soft'.



- Use the **+ key** (**8**) and the **– key** (**9**) to switch between the 'soft' and 'hard' predefined thresholds.

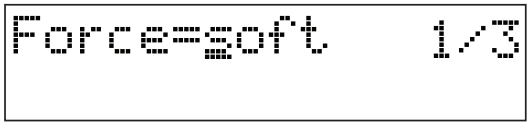


- Once the set you want is shown on the top line of the display, this set has automatically loaded.
- Press the **EXIT key** (**12**) to return to **browse mode** or to **favourite mode**.

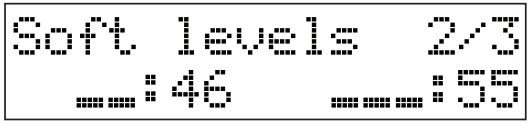
8.8.4 Customising the global thresholds

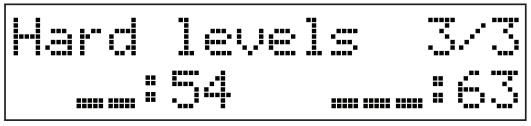
The different sets of thresholds can be customised to further match your weight or playing style. One method for achieving this is to adjust the thresholds of either or both the 'soft' and 'hard' sets, whereby the thresholds of all four pads are adjusted simultaneously (global thresholds).

- In **browse mode** or in **favourite mode**, press the **MENU key** (**10**) until the top line of the display reads 'Pad preference' (see above).
- Press the **SET key** (**11**), to go to page 1 of 3 of the 'Pad preference' menu.



- To adjust the global threshold levels of the '**soft**' set, press the **MENU key** (**10**) once to go to page 2 of 3 of the 'Pad preference' menu. To adjust the global threshold levels of the '**hard**' set, press the **MENU key** (**10**) again to go to page 3 of 3 of the menu.



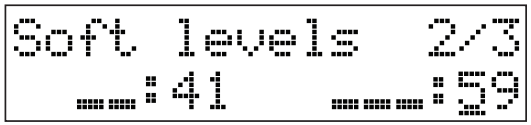


These two pages show the current settings for the thresholds of the respective sets. The thresholds are symbolised here by the number of **LEDs** (**7**) that will light up when the threshold is reached (▬ for *LEVEL 2*; ▬▬ for *LEVEL 3*). In the first example above, the current '**soft**' set has the global *LEVEL 2* threshold set at 46, while the *LEVEL 3* threshold is set at 55.

- To adjust the threshold(s), press the **SET key** (**11**) when on page 2 or 3 of the menu. The cursor will appear under the value of the threshold for *LEVEL 2*.
- Use the **+ key** (**8**) and the **– key** (**9**) to increase or decrease the value of the global threshold and the **SET key** (**11**) to switch between the global threshold for *LEVEL 2* and *LEVEL 3*.

> ***The thresholds for Level 1 have been set at an optimal default value by VR and cannot be modified.***

By decreasing the value of a threshold (e.g., from 46 to 41), less force now needs to be applied to each of Pedalino's four pads in order to reach the corresponding level. Likewise, increasing the threshold (e.g., from 55 to 59) will increase the amount of force required to reach that level.



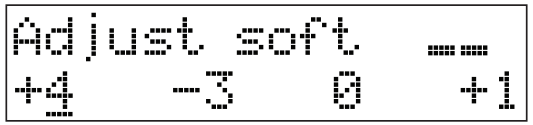
> ***While in the pad preference menu it is possible to try out the thresholds AS you are customising them (either the predefined thresholds or those you are adjusting). Simply press pads (13), (14), (15) or (16), and look at the force-feedback LEDs (7) to check how much force you need to apply to activate that particular level.***

- When you are done with adjusting the global thresholds, press the **EXIT key** (**12**) TWICE to return to **browse mode** or to **favourite mode**.

8.8.5 Customising individual pads' thresholds

The global thresholds described above apply to all four pads (**13**) to (**16**) of your Pedalino. However you also have the option of fine-adjusting the thresholds for *LEVEL 2* and/or *LEVEL 3* of each individual pad for an even higher level of personal customisation. This can be done for both the 'soft' or the 'hard' sets, independently.

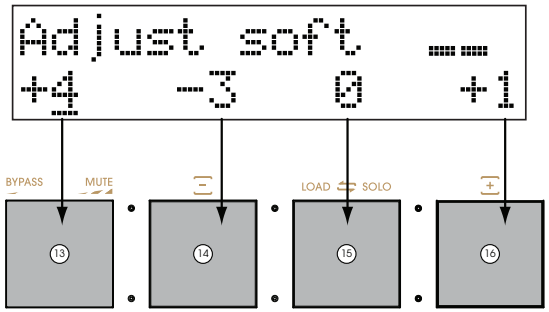
- To fine tune the thresholds of the '**soft**' set, go to page 2 of 3 of the 'Pad preference' menu, as shown in the section 8.8.2. Now press the **Favourites switch** (**4**). The following screen will appear:



- In this screen, adjust the thresholds for *LEVEL 2* (▬) of the 'soft' set of each pad. The numerical values on the bottom line of the display indicate an **individual offset** applied to each one of the four pads. The order, from left to right, of the four offsets on the bottom line corresponds to the order of the four pads of your Pedalino (**BYPASS/MUTE** (**13**), **–** (**14**), **LOAD/SOLO** (**15**), and **+ pad** (**16**), respectively).

Negative offset values reduce the threshold for that particular pad, with respect to the global threshold value for the selected set and level. Positive offset values have the effect of increasing the threshold for that particular pad.

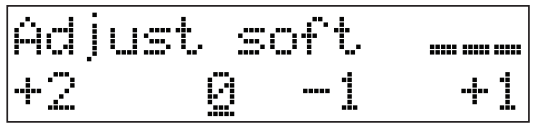
In the example below, we are fine tuning the thresholds for *LEVEL 2* of the '**soft**' set. The offsets shown below are applied:



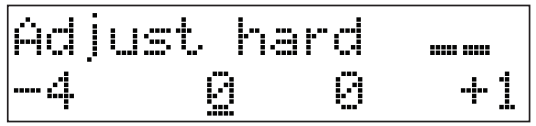
Assuming that the global threshold value for *LEVEL 2* of the 'soft' set is 46, the resulting individual soft thresholds (for *LEVEL 2*) of each one of the four pads will be:

Pad (**13**) = 50 Pad (**14**) = 43 Pad (**15**) = 46 Pad (**16**) = 47

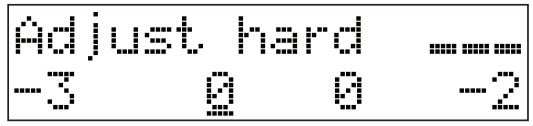
- Press the **SET key** (**11**) to select the offset (pad) you wish to adjust. This is indicated by the cursor under the numerical offset value. Use the **+ key** (**8**) and the **– key** (**9**) to increase and decrease the value of the offset.



- To switch between the fine adjustment menu pages for *LEVEL 2* (▬) and *LEVEL 3* (▬▬) of the '**soft**' set press the **MENU key** (**10**).
- To fine-adjust the individual pad thresholds of the '**hard**' set, start from page 3 of 3 of the pad preference menu and press the **Favourites switch** (**4**).



- Press the **SET key** (**11**) to select the offset (pad) you wish to adjust. This is indicated by the cursor under the numerical offset value. Use the **+ key** (**8**) and the **– key** (**9**) to increase and decrease the value of the offset.
- To switch between the fine adjustment menu pages for *LEVEL 2* (▬) and *LEVEL 3* (▬▬) of the '**hard**' set press the **MENU key** (**10**).



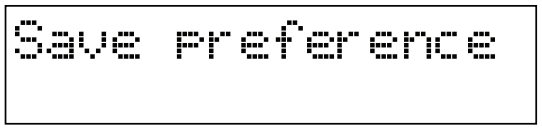
> ***While you are adjusting the offsets, you can try out the new thresholds as you are customising them by simply pressing pads (13), (14), (15) or (16), and looking at the force-feedback LEDs (7) to check how much force you need to apply to activate that particular level for each individual pad.***

- When you are done adjusting the offsets, press the **Favourite switch** (**4**) to return to **browse mode** or to **favourite mode**.

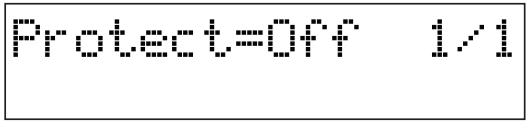
8.8.6 Protecting PedalPro's presets (temporary adjustments)

If you do not want your on-the-fly changes permanently stored in the PedalPro's preset (say, you are only testing some adjustments to one of your stored sounds), you can protect PedalPro's presets from changes using preset save protection.

- With the Pedalino in **browse mode**, press **MENU key (10)** until the top line of the display reads 'Save preference':

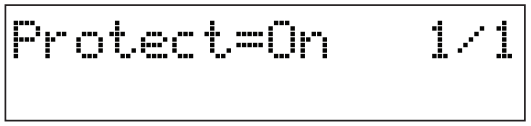


- Press the **SET key** (**11**) to access the configuration page.



When preset save protection is switched OFF, changes you make using your Pedalino are immediately stored within the active preset in your PedalPro and will be available next time you load that preset.

- To toggle Pedalino's preset save protection ON or OFF, use the **+ key** (**8**) or the **– key** (**9**).

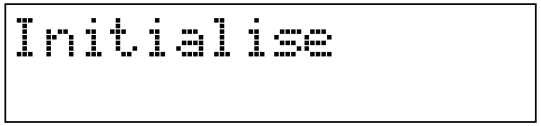


When preset save protection is switched ON, on-the-fly adjustments made to a preset using your Pedalino are NOT stored within the active preset in your PedalPro and they will be lost as soon as you load a different preset stored in your PedalPro.

8.8.7 RE-INITIALISING THE PEDALINO

If you want to restore Pedalino's factory settings and reload the factory value for user-defined thresholds, you can do that by re-initialising your Pedalino Foot Controller.

- In **browse mode** or in **favourite mode** press the **MENU key** (**10**) until the top line of the display reads 'Initialise'.



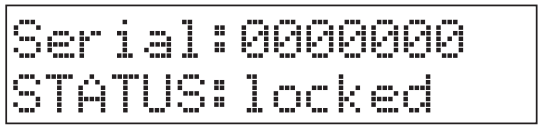
- Now press the **SET key** (**11**). You will be asked to confirm the action by pressing the **SET key** (**11**) again.

- Press the **SET key** (**11**) to confirm or the **EXIT key** (**12**), if you want to cancel the action.

9.1 INSTALLING NEW FIRMWARE

If new firmware for your Pedalino Foot Controller has become available on VR's website or you have ordered your own customised firmware and you want to install it on your Pedalino, first download it and save it to a location in your computer.

- Connect the Pedalino to your PC/Mac using the **USB port** (**23**) and the USB cable supplied with your PedalPro. DO NOT switch on your Pedalino yet.
- Start the PedalManager software that came with the PedalPro (or download it from VR's website) by double-clicking on the programme icon to be found in the directory where you saved the software, or on the shortcut you've created.
- With the Pedalino switched OFF, **press and hold** the **SET key** (**11**) **while switching on the Pedalino**. The Pedalino is now in firmware upgrade mode. The PedalManager software should immediately recognise that the Pedalino is connected and communication between the computer and the Pedalino can now take place.



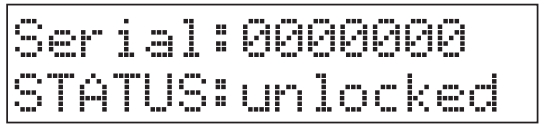
This screen shows the following important information about your PedalPro:

- ***Serial*** **-** this is the 8-digit serial number unique to your Pedalino Foot Controller (assigned by VR).
- ***KEY*** - this field shows whether or not your Pedalino can receive a firmware upgrade. Before the upgrade can take place, the Pedalino must be unlocked by supplying the 30-digit **Firmware Unlock Key** in the appropriate field of the PedalManager software. You will receive your 30-digit key together with your new firmware.

How to perform a firmware upgrade

- On the **Firmware tab** of the PedalManager click on '**Load Device Firmware File**' and browse to find the file with the new firmware in the location where you stored it in your computer.
- Copy the **Firmware Unlock Key** you have received from VR with your new firmware in the 'Firmware Unlock Key' pop-up window.

The PedalManager communicates with the Pedalino and checks the Firmware Unlock Key and whether the file contains the correct firmware for your Pedalino. If the checks are successful, the display of your Pedalino will show the status of your unit as 'unlocked'.



- Click on '**Write Firmware**' and wait for the confirmation that the upgrade has been successful.
- Switch your Pedalino off, disconnect the USB cable and switch the Pedalino on again.

9.2 OPTIONAL EXTRAS

As mentioned in the section on the ADES-controlled parameters of the PedalPro's effects (see PedalPro Owner's Manual), each of the available parameters has a predefined range through which you can sweep with an expression pedal. You can find a table with the parameters and their ranges on page 16 of this manual.

There is, however, always the possibility that a different range would better suit your playing style. If this is the case, we can supply you with new firmware with your own customised ranges.

As an example: the parameter F2 HiRng, which is the high range of Filter F2, is factory designed to sweep from 946 to 2055 Hz using the complete action of the expression pedal. In your case, however, the range from 1320 to 2555 Hz might better suit your purposes, and we can adapt it for you.

For the latest information on costs for altering each parameter range, email us at customer support (@) with your request.

10 TECHNICAL SPECS

EMC
Tested to comply with: EN 55103-1 and EN 55103-2

Safety
Certified to: IEC 60065 / EN 60065

Environment
Operating Temperature: 0° C to 35° C (32° F to 95° F)
Storage Temperature: -30° C to 70° C (-22° F to 167° F)
Humidity: Max. 90 % non-condensing

Control Interface
ADES In/Out: 5 Pin DIN
USB 1.1, type B
Pedal (Exp.): 1/4" stereo phone jack, with auto-sensing

General
Plated and painted steel chassis
Display: 2x16 character FSTN-LCD display
4 force-sensing, multi-level switching pads
Dimensions: 445mm x 211.9mm x 27.3mm (17.5" x 8.3" x 1.1")
Weight: 3.21 kg (7.08 lb.)

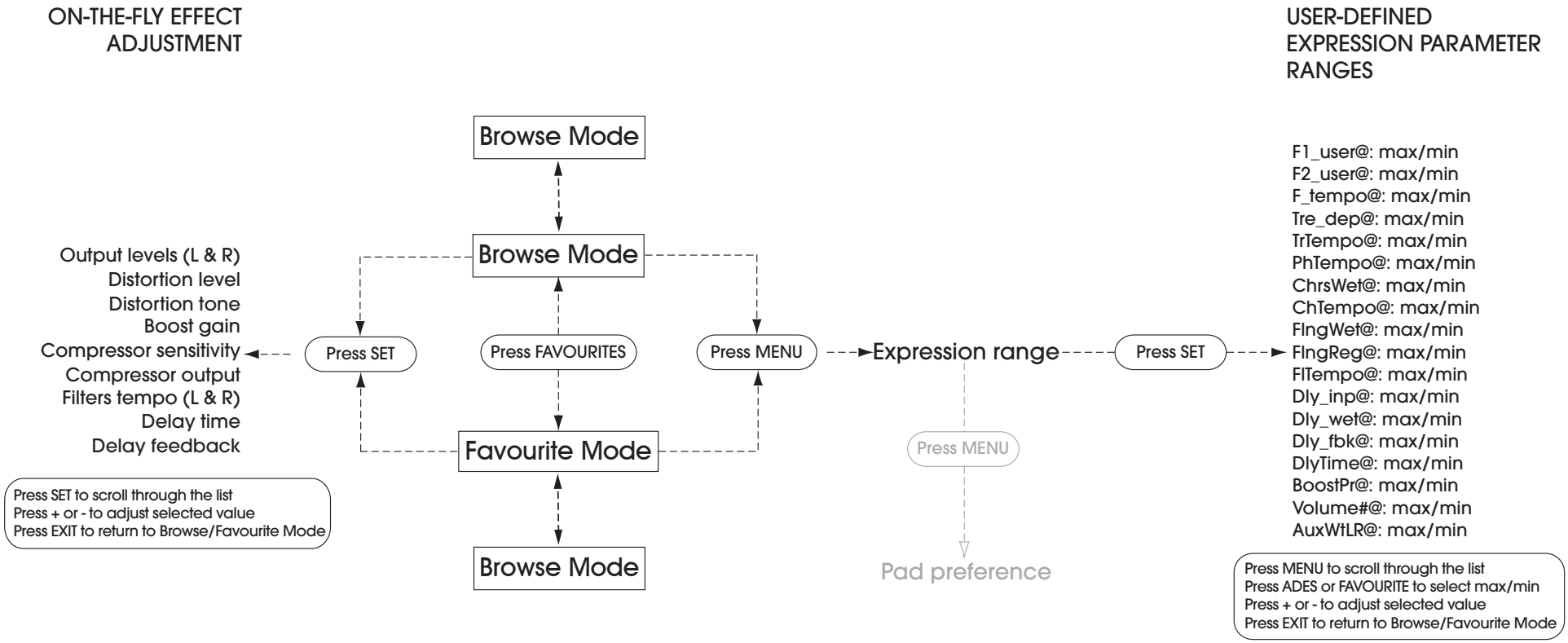
Mains
AC/DC linear power supply (included). Voltage:100 to 240 VAC, 50 to 60 Hz (auto-select), output 7.5V DC ±5%
Power Consumption: <10 W

Warranty Parts and Labor: According to EU regulations

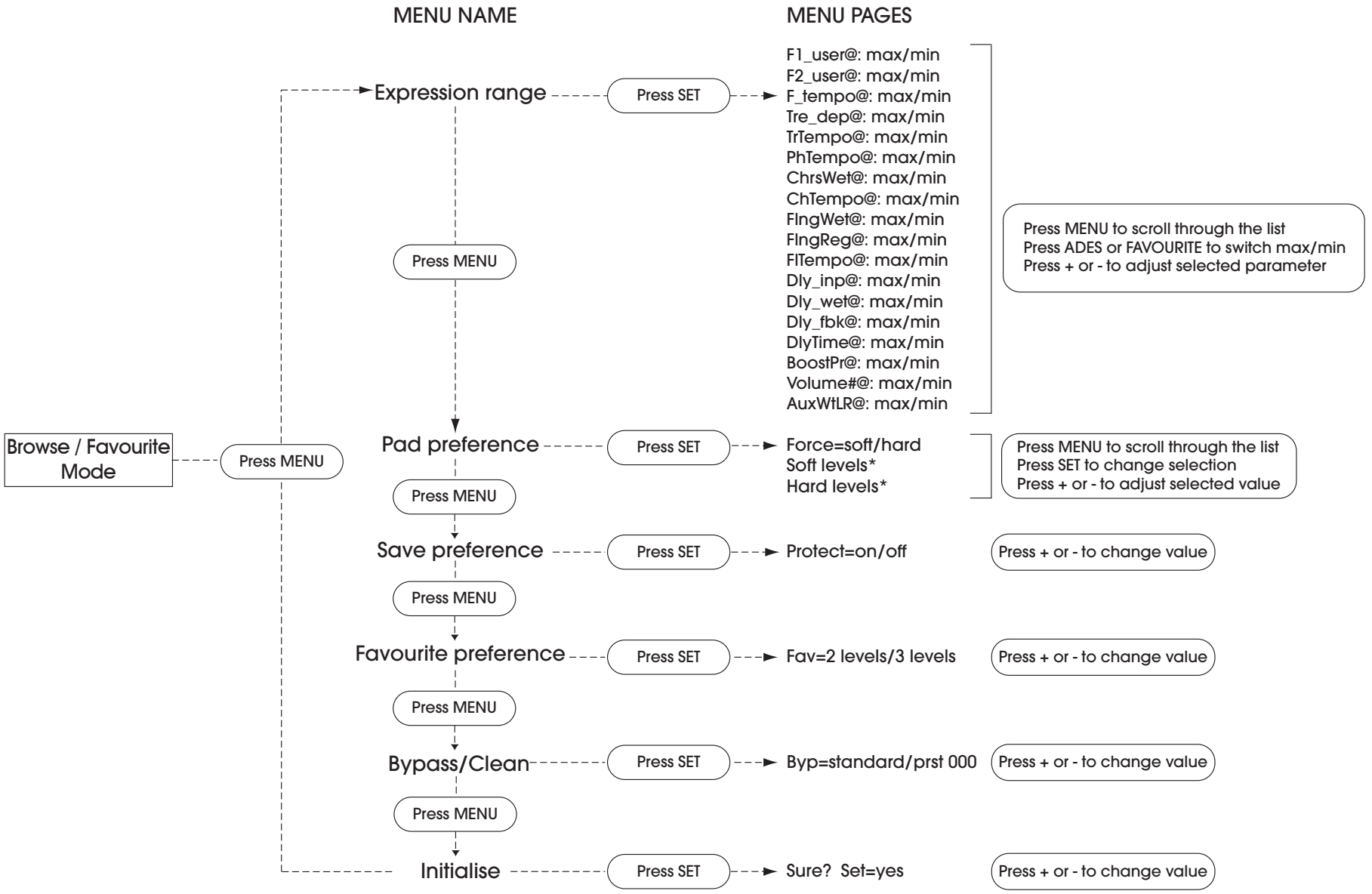
10

SPECIFICATIONS SUBJECT TO CHANGE AND IMPROVEMENT WITHOUT NOTICE.

11.1 ON-STAGE QUICK ACCESS GUIDE



11.2 FULL MENU OVERVIEW



** Press **Favourite switch (4)** to access the thresholds' fine adjustment menu page (see p.26).*

A. LIST OF COMPATIBLE EXPRESSION PEDALS

The following are the expression pedals that have been tested with the Pedalino and that are guaranteed to work. Set the **EXP. MODE switch** (**19**) as indicated in the table below.

COMPATIBLE EXPRESSION PEDALS

BRAND - MODEL*	EXP. MODE switch settings
Roland - EV-5	
Roland - EV-7	
Yamaha - FC9	
M-Audio - EX-P	
Zoom - FP 02	

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